GenCore version 4.5

OM nucleic - nucleic search, using sw model

Run on: March 15, 2002, 05:36:04 ; Search time 196.78 Seconds
(without alignments)
19148.005 Million cell updates/sec

Title: US-09-652-292-1
Perfect score: 4395
Sequence: 1 gaggggtccttgccaggcc.....attatttgtaaaaaaaaaaa 4395

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 930621 seqs, 428662619 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1861242

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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21: /SIDS2/gcgdata/geneseq/geneseqn/NA2000.DAT:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
c	1	182	4.1	385	22	AAH50797	Human tumour assoc
	2	126	2.9	452	22	AAI15064	Probe #4997 for ge
	3	126	2.9	452	22	AAI36406	Probe #5092 used t
	4	126	2.9	452	22	AAI04827	Probe #4818 used t
	5	105	2.4	180	22	AAI24251	Probe #14184 for g
	6	105	2.4	180	22	AAI49534	Probe #18220 used
	7	105	2.4	180	22	AAI09811	Probe #9802 used t
	8	50	1.1	17131	21	AAZ60888	DNA encoding a hum
c	9	48	1.1	454	21	AAA45104	Human secreted exp
	10	48	1.1	21636	21	AAA55966	Human G713 3'-end
c	11	46	1.0	241	22	AAF17845	Human breast cance
c	12	46	1.0	376	22	AAF65548	Novel human polynu
c	13	45	1.0	1242	20	AAX85026	Human secreted pro
	14	44	1.0	545	22	AAH10383	Human cDNA clone (
c	15	44	1.0	2609	22	AAH17513	Human cDNA sequenc
c	16	43	1.0	122186	22	AAC89560	Human histone deac
	17	42	1.0	2791	20	AAX80486	Human secreted pro
c	18	42	1.0	49999	20	AAZ23901	Human LOBO homolog
	19	41	0.9	171	21	AAC28400	Human secreted pro
	20	41	0.9	889	22	AAH72617	Human cervical can
	21	41	0.9	2221	22	AAH13971	Human cDNA sequenc
	22	41	0.9	2284	20	AAX80059	Human PRO361 nucle
	23	41	0.9	2284	21	AAA49567	Human PRO361 cDNA.
	24	41	0.9	2284	22	AAF44268	Human PRO361 nucle
	25	41	0.9	2297	22	AAH18096	Human cDNA sequenc
	26	41	0.9	2342	21	AAC59840	Human secreted pro
	27	41	0.9	2407	22	AAH18551	Human cDNA sequenc
	28	41	0.9	2418	21	AAC58593	Human PRO361 prote
	29	41	0.9	6727	20	AAX02993	Human IL-1ra BAC c
	30	41	0.9	122186	22	AAC89560	Human histone deac
	31	40	0.9	300	20	AAZ13969	Human gene express
	32	40	0.9	771	20	AAZ15472	Human gene express
	33	40	0.9	1608	22	AAH17235	Human cDNA sequenc
c	34	40	0.9	1669	22	AAH26169	Human cytochrome P
c	35	40	0.9	1669	22	AAH26179	Human cytochrome P
	36	40	0.9	3648	22	AAH18638	Human cDNA sequenc
c	37	40	0.9	7505	20	AAV83949	Bacterial artifici
c	38	39	0.9	1133	21	AAC69501	Human secreted pro
c	39	39	0.9	6374	22	AAD09491	Human SGP006 phosp
c	40	38	0.9	336	21	AAA16012	Human colon cancer
c	41	38	0.9	3023	20	AAX03036	Human IL-1ra BAC c
c	42	38	0.9	24025	17	AAT17455	Mutated BRCA1 geno
c	43	38	0.9	24025	17	AAT17515	Mutated BRCA1 geno
c	44	38	0.9	24026	17	AAT32612	BRCA1, human breas
c	45	38	0.9	24026	17	AAT17512	Mutated BRCA1 geno

ALIGNMENTS

RESULT 1
AAH50797/c
ID AAH50797 standard; cDNA; 385 BP.
XX
AC AAH50797;
XX
DT 23-AUG-2001 (first entry)
XX
DE Human tumour associated cDNA #126.
XX
KW Human; cancer specific gene expression; gene therapy;
KW age related differential expression; ss.
XX
OS Homo sapiens.
XX
PN WO200136685-A2.
XX
PD 25-MAY-2001.
XX
PF 17-NOV-2000; 2000WO-US31809.
XX
PR 17-NOV-1999; 99US-0166056.
PR 17-NOV-1999; 99US-0166106.
XX
PA (NYXI-) NYXIS NEURO THERAPIES INC.
XX
PI Kroes RA, Moskal JR, Yamamoto H;
XX
DR WPI; 2001-355647/37.
XX
PT Novel nucleic acid molecules differentially expressed in brain cancers,
PT useful for ascertaining propensity of cell for malignant phenotype or
PT ascertaining suitability of anti-neoplastic drug candidate -
XX

```
PS   Claim 28; Page 55; 82pp; English.
XX
CC   The present invention provides the sequences of 184 cDNA fragments which
CC   are differentially expressed in cancer cell depending on the age of the
CC   patient. They can be used to diagnose and identify treatments for
CC   cancers, particularly brain cancers such as haemangioblastoma, teratoma,
CC   haemangioma, glioblastoma, schwannoma, osteoma and pinealoma. The
CC   present sequence is a cancer-associated cDNA of the invention.
XX
SQ   Sequence 385 BP; 127 A; 61 C; 43 G; 154 T; 0 other;


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  Best Local Similarity   100.0%;  Pred. No. 5.9e-72;
  Matches  182;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy    4245 aaacataccctttatctctgtaaaatttatacacacaaaaattaacaaaagattctgtaa 4304
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Qy    4305 gaattaattggctatatggaatttaggatagaatatttacaataaagagtatttacaata 4364
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy    4365 aa 4366
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Db      26 AA 25


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ID   AAI15064 standard; DNA; 452 BP.
XX
AC   AAI15064;
XX
DT   12-OCT-2001  (first entry)
XX
DE   Probe #4997 for gene expression analysis in human cervical cell sample.
XX
KW   Probe; human; microarray; gene expression; cervical epithelial cell;
KW   cervical cancer; ss.
XX
OS   Homo sapiens.
XX
PN   WO200157278-A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00670.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-488901/53.
XX
PT   Human genome-derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human cervical epithelial cells -
XX
PS   Claim 25; SEQ ID No 4997; 487pp; English.
XX
CC   The present invention relates to human single exon nucleic acid probes
CC   (SENP). The present sequence is one such probe. The SENPs are derived
CC   from human HeLa cells. The SENPs can be used to produce a single exon
CC   microarray, which can be used for measuring human gene expression in a
CC   sample derived from human cervical epithelial cells. By measuring gene
CC   expression, the probes are therefore useful in grading and/or staging
CC   of diseases of the cervix, notably cervical cancer.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence 452 BP; 111 A; 133 C; 98 G; 110 T; 0 other;


  Query Match             2.9%;  Score 126;  DB 22;  Length 452;
  Best Local Similarity   100.0%;  Pred. No. 9.8e-47;
  Matches  126;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db     309 agtgacctggcttgtcctcagcgagatctaccctgtggagatacgaggaagagccttcgc 368

Qy    1596 cttctgcaacagcttcaactgggcggccaacctcttcatcagcctctccttcctcgatct 1655
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     369 cttctgcaacagcttcaactgggcggccaacctcttcatcagcctctccttcctcgatct 428

Qy    1656 cattgg 1661
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Db     429 cattgg 434


RESULT   3
AAI36406
ID   AAI36406 standard; DNA; 452 BP.
XX
AC   AAI36406;
XX
DT   17-OCT-2001  (first entry)
XX
DE   Probe #5092 used to measure gene expression in human placenta sample.
XX
KW   Probe; microarray; human; placenta; antenatal diagnosis;
KW   genetic disorder; ss.
XX
OS   Homo sapiens.
XX
PN   WO200157272-A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00663.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-488897/53.
XX
PT   Human genome-derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human placenta -
XX
PS   Claim 25; SEQ ID No 5092; 654pp; English.
XX
CC   The present invention relates to single exon nucleic acid probes (SENP).
CC   The present sequence is one such probe. The probes are useful for
```

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CC   producing a microarray for predicting, measuring and displaying gene
CC   expression in samples derived from human placenta. The probes are useful
CC   for antenatal diagnosis of human genetic disorders.
XX
SQ   Sequence 452 BP; 111 A; 133 C; 98 G; 110 T; 0 other;


  Query Match             2.9%;  Score 126;  DB 22;  Length 452;
  Best Local Similarity   100.0%;  Pred. No. 9.8e-47;
  Matches  126;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     309 agtgacctggcttgtcctcagcgagatctaccctgtggagatacgaggaagagccttcgc 368

Qy    1596 cttctgcaacagcttcaactgggcggccaacctcttcatcagcctctccttcctcgatct 1655
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Db     369 cttctgcaacagcttcaactgggcggccaacctcttcatcagcctctccttcctcgatct 428

Qy    1656 cattgg 1661
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Db     429 cattgg 434


RESULT   4
AAI04827
ID   AAI04827 standard; DNA; 452 BP.
XX
AC   AAI04827;
XX
DT   09-OCT-2001  (first entry)
XX
DE   Probe #4818 used to measure gene expression in human breast sample.
XX
KW   Probe; human; breast disease; breast cancer; development disorder; ss;
KW   inflammatory disease; proliferative breast disease; non-carcinoma tumour.
XX
OS   Homo sapiens.
XX
PN   WO200157270-A2.
XX
PD   09-AUG-2001.
XX
PF   29-JAN-2001; 2001WO-US00661.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-476286/51.
XX
PT   Novel single exon nucleic acid probe used to measuring gene expression
PT   in a human breast -
XX
PS   Claim 25; SEQ ID No 4818; 322pp; English.
XX
CC   The present invention relates to novel single exon nucleic acid probes.
CC   The present sequence is one such probe. The probes are useful for
CC   measuring human gene expression in a human breast sample, where the probe
CC   hybridises at high stringency to a nucleic acid expressed in the human
CC   breast. The probes are useful for predicting, diagnosing, grading,
CC   staging, monitoring and prognosing diseases of the human breast,
CC   particularly those diseases with polygenic aetiology. The diseases
CC   include: breast cancer, disorders of development, inflammatory diseases
CC   of the breast, fibrocystic changes, proliferative breast disease and
CC   non-carcinoma tumours.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence 452 BP; 111 A; 133 C; 98 G; 110 T; 0 other;


  Query Match             2.9%;  Score 126;  DB 22;  Length 452;
  Best Local Similarity   100.0%;  Pred. No. 9.8e-47;
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Db     309 agtgacctggcttgtcctcagcgagatctaccctgtggagatacgaggaagagccttcgc 368

Qy    1596 cttctgcaacagcttcaactgggcggccaacctcttcatcagcctctccttcctcgatct 1655
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     369 cttctgcaacagcttcaactgggcggccaacctcttcatcagcctctccttcctcgatct 428

Qy    1656 cattgg 1661
           ||||||
Db     429 cattgg 434


RESULT   5
AAI24251
ID   AAI24251 standard; DNA; 180 BP.
XX
AC   AAI24251;
XX
DT   12-OCT-2001  (first entry)
XX
DE   Probe #14184 for gene expression analysis in human cervical cell sample.
XX
KW   Probe; human; microarray; gene expression; cervical epithelial cell;
KW   cervical cancer; ss.
XX
OS   Homo sapiens.
XX
PN   WO200157278-A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00670.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-488901/53.
XX
PT   Human genome-derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human cervical epithelial cells -
XX
PS   Claim 25; SEQ ID No 14184; 487pp; English.
XX
CC   The present invention relates to human single exon nucleic acid probes
CC   (SENP). The present sequence is one such probe. The SENPs are derived
CC   from human HeLa cells. The SENPs can be used to produce a single exon
CC   microarray, which can be used for measuring human gene expression in a
CC   sample derived from human cervical epithelial cells. By measuring gene
CC   expression, the probes are therefore useful in grading and/or staging
CC   of diseases of the cervix, notably cervical cancer.
CC   Note: The sequence data for this patent did not form part of the printed
```

```
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence 180 BP; 37 A; 54 C; 36 G; 53 T; 0 other;


  Query Match             2.4%;  Score 105;  DB 22;  Length 180;
  Best Local Similarity   100.0%;  Pred. No. 2.9e-37;
  Matches  105;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 cgagatctaccctgtggagatacgaggaagagccttcgccttctgcaacagcttcaactg 60

Qy   1617 ggcggccaacctcttcatcagcctctccttcctcgatctcattgg 1661
           |||||||||||||||||||||||||||||||||||||||||||||
Db     61 ggcggccaacctcttcatcagcctctccttcctcgatctcattgg 105


RESULT   6
AAI49534
ID   AAI49534 standard; DNA; 180 BP.
XX
AC   AAI49534;
XX
DT   17-OCT-2001  (first entry)
XX
DE   Probe #18220 used to measure gene expression in human placenta sample.
XX
KW   Probe; microarray; human; placenta; antenatal diagnosis;
KW   genetic disorder; ss.
XX
OS   Homo sapiens.
XX
PN   WO200157272-A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00663.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-488897/53.
XX
PT   Human genome-derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human placenta -
XX
PS   Claim 25; SEQ ID No 18220; 654pp; English.
XX
CC   The present invention relates to single exon nucleic acid probes (SENP).
CC   The present sequence is one such probe. The probes are useful for
CC   producing a microarray for predicting, measuring and displaying gene
CC   expression in samples derived from human placenta. The probes are useful
CC   for antenatal diagnosis of human genetic disorders.
XX
SQ   Sequence 180 BP; 37 A; 54 C; 36 G; 53 T; 0 other;


  Query Match             2.4%;  Score 105;  DB 22;  Length 180;
  Best Local Similarity   100.0%;  Pred. No. 2.9e-37;
  Matches  105;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db      1 cgagatctaccctgtggagatacgaggaagagccttcgccttctgcaacagcttcaactg 60

Qy   1617 ggcggccaacctcttcatcagcctctccttcctcgatctcattgg 1661
           |||||||||||||||||||||||||||||||||||||||||||||
Db     61 ggcggccaacctcttcatcagcctctccttcctcgatctcattgg 105


RESULT   7
AAI09811
ID   AAI09811 standard; DNA; 180 BP.
XX
AC   AAI09811;
XX
DT   09-OCT-2001  (first entry)
XX
DE   Probe #9802 used to measure gene expression in human breast sample.
XX
KW   Probe; human; breast disease; breast cancer; development disorder; ss;
KW   inflammatory disease; proliferative breast disease; non-carcinoma tumour.
XX
OS   Homo sapiens.
XX
PN   WO200157270-A2.
XX
PD   09-AUG-2001.
XX
PF   29-JAN-2001; 2001WO-US00661.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-476286/51.
XX
PT   Novel single exon nucleic acid probe used to measuring gene expression
PT   in a human breast -
XX
PS   Claim 25; SEQ ID No 9802; 322pp; English.
XX
CC   The present invention relates to novel single exon nucleic acid probes.
CC   The present sequence is one such probe. The probes are useful for
CC   measuring human gene expression in a human breast sample, where the probe
CC   hybridises at high stringency to a nucleic acid expressed in the human
CC   breast. The probes are useful for predicting, diagnosing, grading,
CC   staging, monitoring and prognosing diseases of the human breast,
CC   particularly those diseases with polygenic aetiology. The diseases
CC   include: breast cancer, disorders of development, inflammatory diseases
CC   of the breast, fibrocystic changes, proliferative breast disease and
CC   non-carcinoma tumours.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence 180 BP; 37 A; 54 C; 36 G; 53 T; 0 other;


  Query Match             2.4%;  Score 105;  DB 22;  Length 180;
  Best Local Similarity   100.0%;  Pred. No. 2.9e-37;
  Matches  105;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy   1557 cgagatctaccctgtggagatacgaggaagagccttcgccttctgcaacagcttcaactg 1616
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 cgagatctaccctgtggagatacgaggaagagccttcgccttctgcaacagcttcaactg 60
```

```
Qy   1617 ggcggccaacctcttcatcagcctctccttcctcgatctcattgg 1661
          ||||||||||||||||||||||||||||||||||||||||||||
Db     61 ggcggccaacctcttcatcagcctctccttcctcgatctcattgg 105


RESULT   8
AAZ60888
ID   AAZ60888 standard; DNA; 17131 BP.
XX
AC   AAZ60888;
XX
DT   16-MAY-2000  (first entry)
XX
DE   DNA encoding a human geranylgeranyl pyrophosphate synthetase (hGGPPS).
XX
KW   Human; geranylgeranyl pyrophosphate synthetase; hGGPPS; chromosome 1;
KW   1q42-1q43 locus; prostate cancer; hGGPPS; biallelic marker;
KW   mevalonic biosynthetic pathway; ss.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   exon            486..546
FT                   /*tag= a
FT                   /number= 1
FT   intron          547..7291
FT                   /*tag= b
FT                   /number= 1
FT   exon            633..826
FT                   /*tag= c
FT                   /number= 1bis
FT   intron          827..7191
FT                   /*tag= d
FT                   /number= 1bis
FT   exon            7292..7384
FT                   /*tag= e
FT                   /number= 2
FT   intron          7385..13759
FT                   /*tag= f
FT                   /number= 2
FT   exon            13760..13830
FT                   /*tag= g
FT                   /number= 3
FT   intron          13831..14062
FT                   /*tag= h
FT                   /number= 3
FT   exon            14063..15251
FT                   /*tag= i
FT                   /number= 4
XX
PN   WO200005382-A2.
XX
PD   03-FEB-2000.
XX
PF   23-JUL-1999;   99WO-IB01353.
XX
PR   23-JUL-1998;   98US-0093940.
XX
PA   (GEST ) GENSET.
XX
PI   Bougueleret L;
XX
DR   WPI; 2000-182704/16.
DR   P-PSDB; AAY68909.
XX
PT   New isolated human geranyl-geranyl pyrophosphate synthetase nucleic
PT   acids, used to develop agents for the diagnosis of, e.g. pathologies
PT   related to a defect in the mevalonic biosynthetic pathway -
XX
PS   Claim 1; Page 72-79; 88pp; English.
XX
CC   The present sequence represents a genomic sequence of human
CC   geranylgeranyl pyrophosphate synthetase (hGGPPS). The sequence
CC   comprises the 5' regulatory region, the exons and introns, and
CC   3' regulatory region. Two differently spliced mRNAs exist for this
CC   gene. The first spliced mRNA is derived from a cDNA (AAZ60888) which
CC   comprises exons 1, 2, 3 and 4. The second mRNA is derived from a
CC   cDNA (AAZ60889) which comprises 1bis, 2, 3, and 4. The hGGPPS gene is
CC   located on chromosome 1, at the 1q42-1q43 locus. This chromosome 1
CC   locus has been shown to carry a predisposing gene for prostate cancer.
CC   The nucleic acids encoding hGGPPS can be used for screening for agents
CC   which modulate the expression of the hGGPPS gene. Such agents can be
CC   used in therapeutic applications. The biallelic markers associated with
CC   the hGGPPS gene can be used for the diagnosis of diseases related to
CC   an alteration in the regulatory or coding regions of hGGPPS, such as
CC   pathologies related to a defect in the mevalonic biosynthetic pathway.
CC   The products can also be used for detection, diagnosis and drug
CC   screening.
XX
SQ   Sequence 17131 BP; 5110 A; 3434 C; 3759 G; 4816 T; 12 other;


  Query Match             1.1%;  Score 50;  DB 21;  Length 17131;
  Best Local Similarity   100.0%;  Pred. No. 1.6e-12;
  Matches   50;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy   2412 gggttcaagcgattctcctgcctcagcctcctaagtagctgggattacag 2461
          ||||||||||||||||||||||||||||||||||||||||||||||||||
Db  16804 gggttcaagcgattctcctgcctcagcctcctaagtagctgggattacag 16853


RESULT   9
AAA45104/c
ID   AAA45104 standard; cDNA; 454 BP.
XX
AC   AAA45104;
XX
DT   21-AUG-2000  (first entry)
XX
DE   Human secreted expressed sequence tag SEQ ID NO:1679.
XX
KW   Human; mouse; chicken; rat; secreted expressed sequence tag; sEST;
KW   expressed sequence tag; EST; probe; chemotactic; proliferative;
KW   immunomodulatory; haematopoietic; chemokinetic; analgesic; haemostatic;
KW   thrombolytic; antiinflammatory; cytostatic; antibacterial; antifungal;
KW   antiviral; antidiabetic; antiasthmatic; vulnerary; antiparkinsonian;
KW   antiulcer; osteopathic; neuroprotective; nootropic; antipsoriatic;
KW   cerebroprotective; anticonvulsant; antidepressant; gene therapy;
KW   vaccine; autoimmune disorder; multiple sclerosis; allergic condition;
KW   insulin dependent diabetes; asthma; myeloid cell deficiency; ulcer;
KW   lymphoid cell deficiency; burn; osteoporosis; osteoarthritis;
KW   central nervous system disorder; Alzheimer's disease; stroke;
KW   Parkinson's disease; Huntington's disease; coagulation disorder;
KW   haemophilia; thrombosis; inflammatory disorder; Crohn's disease;
KW   tumour; infection; depression; psoriasis; ss.
XX
OS   Homo sapiens.
XX
PN   WO200021991-A1.
XX
PD   20-APR-2000.
XX
PF   15-OCT-1999;   99WO-US24206.
XX
PR   15-OCT-1998;   98US-0104436.
XX
PA   (GEMY ) GENETICS INST INC.
XX
PI   Jacobs K,  McCoy JM,  LaVallie ER,  Collins-Racie LA,  Evans C;
PI   Merberg D,  Treacy M,  Bowman MR;
XX
DR   WPI; 2000-317938/27.
XX
PT   Isolated polynucleotides, and encoded proteins, comprising secreted
PT   expressed sequence tags (sESTs), useful for treating various disorders
PT   such as autoimmune, infectious, and central nervous system disorders -
```

XX
PS Claim 1; Page 637; 803pp; English.
XX
CC AAA43426 to AAA45925 represent specifically claimed secreted expressed
CC sequence tags (sESTs), isolated from human, mouse, chicken and rat
CC tissue sources. The sESTs can have a range of activities depending on
CC the tissues they were isolated from. The activities include:
CC chemotactic; proliferative; immunomodulatory; haematopoietic;
CC chemokinetic; analgesic; haemostatic; thrombolytic; antiinflammatory;
CC cytostatic; antibacterial; antifungal; antiviral; antidiabetic;
CC antiasthmatic; vulnerary; antiulcer; osteopathic; neuroprotective;
CC nootropic; antiparkinsonian; antipsoriatic; cerebroprotective;
CC anticonvulsant; and antidepressant. The sESTs can be used for gene
CC therapy and in vaccines. The sESTs are useful as probes for the
CC identification and isolation of full-length cDNAs and genomic DNA
CC molecules which correspond to the sESTs. Proteins encoded by the sESTs
CC are useful in assays for determining biological activity and raising
CC antibodies. They may be useful for treatment of autoimmune disorders
CC (multiple sclerosis, insulin dependent diabetes), allergic conditions
CC (asthma), myeloid or lymphoid cell deficiencies, wounds, burns, ulcers,
CC osteoporosis, osteoarthritis, central nervous system disorders
CC (Alzheimer's, Parkinson's, Huntington's disease, stroke), coagulation
CC disorders (haemophilia, thrombosis), inflammatory disorders (Crohn's
CC disease), tumours, bacterial, fungal or viral infections, depression and
CC psoriasis. AAA45926 to AAA45931 represent linker variants which are given
CC in the exemplification of the present invention.
XX
SQ Sequence 454 BP; 137 A; 97 C; 129 G; 91 T; 0 other;

Query Match 1.1%; Score 48; DB 21; Length 454;
Best Local Similarity 100.0%; Pred. No. 1.3e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2408 tcctgggttcaagcgattctcctgcctcagcctcctaagtagctggga 2455
||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 176 TCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTAAGTAGCTGGGA 129

RESULT 10
AAA55966
ID AAA55966 standard; DNA; 21636 BP.
XX
AC AAA55966;
XX
DT 05-SEP-2000 (first entry)
XX
DE Human G713 3'-end of intron 2, exon 3 and 3'-regulatory region.
XX
KW Human; chromosome 13; G713; chromosome 13q31-q33; schizophrenia;
KW biallelic marker; polymorphism; central nervous disease; detection;
KW neuroleptic; G713 gene expression inhibitor; genotyping;
KW brain disorder; psychiatric disorder; bipolar disorder; ds.
XX
OS Homo sapiens.
XX
PN WO200022122-A2.
XX
PD 20-APR-2000.
XX
PF 12-OCT-1999; 99WO-IB01730.
XX
PR 13-OCT-1998; 98US-0103955.
PR 30-OCT-1998; 98US-0106457.
XX
PA (GEST) GENSET.
XX
PI Blumenfeld M, Bougueleret L, Chumakov I, Cohen D, Essioux L;
XX
DR WPI; 2000-317979/27.
XX
PT Novel polynucleotide of human G713 gene useful for diagnosis and
PT prophylactic treatment of brain, psychiatric disorders like
PT schizophrenia and bipolar disorders -
XX
PS Claim 1; Page 224-230; 271pp; English.
XX
CC The present invention describes an isolated, purified or recombinant
CC polynucleotide (PN) (I) comprising a contiguous span of 8 to 50
CC nucleotides, where the span includes a G713 or chromosome 13q31-q33
CC related biallelic marker. (I) has neuroleptic activity and can be used
CC as a G713 gene expression inhibitor. (I) can be used genotyping to
CC estimate the frequency of an allele of a G713 or chromosome 13q31-q33
CC related biallelic marker in a population, and of a haplotype for a set
CC of biallelic markers in a population. (I) is also useful in detecting
CC an association between a haplotype and a trait. The frequency is used
CC for detecting an association between a genotype and a trait being
CC schizophrenia. The genotype is used to determine whether an individual
CC is at risk of developing schizophrenia. (I) can also be used as a
CC medicament against several disorders preferably brain, psychiatric
CC disorders such as schizophrenia and bipolar disorder. Early
CC identification of risk of developing schizophrenia is possible, which
CC would enable early and/or prophylactic treatment. AAA55964 to AAA55966
CC represent human G713 genomic DNA sequences; AAA55967 encodes the human
CC G713 protein AAY90962; AAA55968 encodes the murine G713 protein
CC AAY90963; AAA55992 to AAA56030 represent human chromosome 13q31-q33 locus
CC biallelic markers A12 to A49; AAA55969 to AAA55991, and AAA56031 and
CC AAA56032 represent PCR primers used in the exemplification of the present
CC invention.
XX
SQ Sequence 21636 BP; 7160 A; 3812 C; 4168 G; 6463 T; 33 other;

Query Match 1.1%; Score 48; DB 21; Length 21636;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2389 gctcactgcaacctccacttcctgggttcaagcgattctcctgcctca 2436
||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 9950 gctcactgcaacctccacttcctgggttcaagcgattctcctgcctca 9997

RESULT 11
AAF17845/c
ID AAF17845 standard; cDNA; 241 BP.
XX
AC AAF17845;
XX
DT 13-MAR-2001 (first entry)
XX
DE Human breast cancer associated 23172 coding sequence.
XX
KW Human; breast cancer associated gene; vaccine; diagnosis; therapy; ss.
XX
OS Homo sapiens.
XX
PN WO200060076-A2.
XX
PD 12-OCT-2000.
XX
PF 15-FEB-2000; 2000WO-US05308.
XX
PR 02-APR-1999; 99US-0285480.
PR 23-JUN-1999; 99US-0339338.
PR 02-SEP-1999; 99US-0389681.
PR 03-NOV-1999; 99US-0433826.
XX
PA (CORI-) CORIXA CORP.
XX
PI Yuqiu J, Dillon DC, Mitcham JL, Xu J, Harlocker SL;
XX
DR WPI; 2001-122627/13.
XX
PT An isolated polypeptide useful for the treatment and diagnosis of
PT tumors e.g. breast cancer comprises at least an immunogenic portion of
PT a breast tumor protein -

```
XX
PS   Claim 66; Page 189; 238pp; English.
XX
CC   The present invention provides the coding sequences and some protein
CC   sequences of proteins associated with breast cancer in humans. These
CC   sequences can be used in the diagnosis and treatment of cancers,
CC   particularly breast tumours.
XX
SQ   Sequence 241 BP; 75 A; 24 C; 18 G; 112 T; 12 other;


  Query Match             1.0%;  Score 46;  DB 22;  Length 241;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-10;
  Matches   46;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy   4214 agtttattattatttgtaagttgtgtgcaacaaacataccctttat 4259
           ||||||||||||||||||||||||||||||||||||||||||||
Db    189 AGTTTATTATTATTTGTAAGTTGTGTGCAACAAACATACCCTTTAT 144


RESULT 12
AAF65548/c
ID   AAF65548 standard; cDNA; 376 BP.
XX
AC   AAF65548;
XX
DT   09-APR-2001  (first entry)
XX
DE   Novel human polynucleotide, SEQ ID NO: 1304.
XX
KW   Human; cytostatic; gene therapy; colon cancer; prostate cancer;
KW   breast cancer; lung cancer; cancer detection; ss.
XX
OS   Homo sapiens.
XX
PN   WO200102568-A2.
XX
PD   11-JAN-2001.
XX
PF   30-JUN-2000; 2000WO-US18374.
XX
PR   02-JUL-1999;   99US-0142310.
PR   02-JUL-1999;   99US-0142311.
XX
PA   (CHIR ) CHIRON CORP.
PA   (HYSE-) HYSEQ INC.
XX
PI   Williams LT,  Escobedo J,  Innis MA,  Garcia PD,  Klinger J,  Kassam A;
PI   Reinhard C,  Randazzo F,  Kennedy GC,  Pot D,  Lamson G,  Drmanac R;
PI   Crkenjakov R,  Drmanac S,  Dickson M,  Labat I,  Leshkowitiz D;
PI   Kita D,  Garcia V,  Jones LW,  Strache-Crain B;
XX
DR   WPI; 2001-091805/10.
XX
PT   Library of polynucleotides for diagnosing a cancerous state of a
PT   mammalian cell and detecting cancer, particularly of the colon or
PT   prostate, comprises 3351 human polynucleotide sequences -
XX
PS   Claim 9; Page 730; 1046pp; English.
XX
CC   The present sequence is one of 3351 sequences in a library of human
CC   polynucleotides. The library is used to detect differentially expressed
CC   genes correlated with a cancerous state of a mammalian cell and can
CC   detect colon, prostate, breast and lung cancer. The library can be used
CC   to produce probes for detection of mRNA and to produce additional copies
CC   of the polynucleotides. The probes can be used for chromosome mapping of
CC   the polynucleotide and for detection of transcription levels. Ribozymes
CC   or antisense oligonucleotides can be generated. The polynucleotides and
CC   their gene products are used as genetic or biochemical markers (e.g. in
CC   blood or tissues) that will detect the earliest changes along the
CC   carcinogenesis pathway and/or monitor the efficacy of therapies and
CC   preventive interventions. The polynucleotides, polypeptides and
CC   antibodies against them can be used in pharmaceutical compositions to
CC   treat the cancers and proliferative disorders such as neoplasia,
CC   dysplasia and hyperplasia.
XX
SQ   Sequence 376 BP; 112 A; 87 C; 109 G; 68 T; 0 other;


  Query Match             1.0%;  Score 46;  DB 22;  Length 376;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-10;
  Matches   46;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy   2412 gggttcaagcgattctcctgcctcagcctcctaagtagctgggatt 2457
           ||||||||||||||||||||||||||||||||||||||||||||
Db    174 GGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTAAGTAGCTGGGATT 129


RESULT 13
AAX85026/c
ID   AAX85026 standard; DNA; 1242 BP.
XX
AC   AAX85026;
XX
DT   30-JUL-1999  (first entry)
XX
DE   Human secreted protein gene No. 94.
XX
KW   Human; secreted protein; fusion protein; gene therapy; protein therapy;
KW   diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;
KW   developmental abnormality; foetal deficiency; blood; allergy; renal; ds;
KW   immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;
KW   inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;
KW   cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;
KW   osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
KW   endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
XX
OS   Homo sapiens.
XX
PN   WO9924836-A1.
XX
PD   20-MAY-1999.
XX
PF   04-NOV-1998;   98WO-US23435.
XX
PR   17-NOV-1997;   97US-0066100.
PR   07-NOV-1997;   97US-0064900.
PR   07-NOV-1997;   97US-0064908.
PR   07-NOV-1997;   97US-0064911.
PR   07-NOV-1997;   97US-0064912.
PR   07-NOV-1997;   97US-0064983.
PR   07-NOV-1997;   97US-0064984.
PR   07-NOV-1997;   97US-0064985.
PR   07-NOV-1997;   97US-0064987.
PR   07-NOV-1997;   97US-0064988.
PR   17-NOV-1997;   97US-0066090.
PR   17-NOV-1997;   97US-0066094.
PR   17-NOV-1997;   97US-0066095.
PR   17-NOV-1997;   97US-0066089.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Carter KC,  Ebner R,  Endress GA,  Feng P,  Janat F;
PI   Kyaw H,  Lafleur DW,  Moore PA,  Ni J,  Olsen HS,  Rosen CA;
PI   Ruben SM,  Shi Y,  Soppet DR,  Wei Y;
XX
DR   WPI; 1999-337740/28.
DR   P-PSDB; AAY27660.
XX
PT   New human secreted proteins and coding sequences useful for treating
PT   disorders of the immune system and hyperproliferative disorders
XX
PS   Claim 1; Page 331; 507pp; English.
XX
CC   This sequence represents a nucleic acid molecule which encodes a
CC   secreted human protein. The gene number is given in the descriptor line.
```

CC The gene can be used to generate fusion proteins by linking to the gene
CC to a human immunoglobulin Fc portion (e.g. AAX84924) for increasing the
CC stability of the fused protein as compared to the human protein only.
CC The invention relates to 125 novel genes and their fragments (nucleic
CC acid sequences: AAX84933-X85057; amino acid sequences AAY27567-Y27933)
CC which are useful for preventing, treating or ameliorating medical
CC conditions e.g. by protein or gene therapy. Also, pathological
CC conditions can be diagnosed by determining the amount of the new
CC polypeptides in a sample or by determining the presence of mutations in
CC the new polynucleotides. Specific uses are described for each of the 125
CC polynucleotides, based on which tissues they are most highly expressed in
CC (see AAX84933 for described uses).
XX
SQ Sequence 1242 BP; 356 A; 259 C; 251 G; 373 T; 3 other;

Query Match 1.0%; Score 45; DB 20; Length 1242;
Best Local Similarity 100.0%; Pred. No. 2.9e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2488 tatttttagcagagatggggtttcactgtgttggccaggctggtc 2532
||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1048 TATTTTTAGCAGAGATGGGGTTTCACTGTGTTGGCCAGGCTGGTC 1004

RESULT 14
AAH10383
ID AAH10383 standard; cDNA; 545 BP.
XX
AC AAH10383;
XX
DT 26-JUN-2001 (first entry)
XX
DE Human cDNA clone (3'-primer) SEQ ID NO:7218.
XX
KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN EP1074617-A2.
XX
PD 07-FEB-2001.
XX
PF 28-JUL-2000; 2000EP-0116126.
XX
PR 29-JUL-1999; 99JP-0248036.
PR 27-AUG-1999; 99JP-0300253.
PR 11-JAN-2000; 2000JP-0118776.
PR 02-MAY-2000; 2000JP-0183767.
PR 09-JUN-2000; 2000JP-0241899.
XX
PA (HELI-) HELIX RES INST.
XX
PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX
DR WPI; 2001-318749/34.
XX
PT Primer sets for synthesizing polynucleotides, particularly the 5602
PT full-length cDNAs defined in the specification, and for the detection
PT and/or diagnosis of the abnormality of the proteins encoded by the
PT full-length cDNAs -
XX
PS Claim 3; SEQ ID 7218; 2537pp + CD ROM; English.
XX
CC The present invention describes primer sets for synthesising 5602
CC full-length cDNAs defined in the specification. Where a primer set
CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
CC to the complementary strand of a polynucleotide which comprises one of
CC the 5602 nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end
CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in
CC the specification. The primer sets can be used in antisense therapy and
CC in gene therapy. The primers are useful for synthesising polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by
CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to
CC AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632
CC represent oligonucleotides, all of which are used in the exemplification
CC of the present invention.
XX
SQ Sequence 545 BP; 121 A; 136 C; 121 G; 159 T; 8 other;

Query Match 1.0%; Score 44; DB 22; Length 545;
Best Local Similarity 100.0%; Pred. No. 8.4e-10;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2415 ttcaagcgattctcctgcctcagcctcctaagtagctgggatta 2458
||||||||||||||||||||||||||||||||||||||||||||
Db 86 ttcaagcgattctcctgcctcagcctcctaagtagctgggatta 129

RESULT 15
AAH17513/c
ID AAH17513 standard; cDNA; 2609 BP.
XX
AC AAH17513;
XX
DT 26-JUN-2001 (first entry)
XX
DE Human cDNA sequence SEQ ID NO:16986.
XX
KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN EP1074617-A2.
XX
PD 07-FEB-2001.
XX
PF 28-JUL-2000; 2000EP-0116126.
XX
PR 29-JUL-1999; 99JP-0248036.
PR 27-AUG-1999; 99JP-0300253.
PR 11-JAN-2000; 2000JP-0118776.
PR 02-MAY-2000; 2000JP-0183767.
PR 09-JUN-2000; 2000JP-0241899.
XX
PA (HELI-) HELIX RES INST.
XX
PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX
DR WPI; 2001-318749/34.
XX
PT Primer sets for synthesizing polynucleotides, particularly the 5602
PT full-length cDNAs defined in the specification, and for the detection
PT and/or diagnosis of the abnormality of the proteins encoded by the
PT full-length cDNAs -
XX
PS Claim 8; SEQ ID 16986; 2537pp + CD ROM; English.
XX
CC The present invention describes primer sets for synthesising 5602
CC full-length cDNAs defined in the specification. Where a primer set
CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
CC to the complementary strand of a polynucleotide which comprises one of
CC the 5602 nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination

CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end
CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in
CC the specification. The primer sets can be used in antisense therapy and
CC in gene therapy. The primers are useful for synthesising polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by
CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to
CC AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632
CC represent oligonucleotides, all of which are used in the exemplification
CC of the present invention.
XX
SQ Sequence 2609 BP; 687 A; 721 C; 661 G; 540 T; 0 other;

Query Match 1.0%; Score 44; DB 22; Length 2609;
Best Local Similarity 100.0%; Pred. No. 8.2e-10;
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2415 ttcaagcgattctcctgcctcagcctcctaagtagctgggatta 2458
||||||||||||||||||||||||||||||||||||||||||||
Db 2524 TTCAAGCGATTCTCCTGCCTCAGCCTCCTAAGTAGCTGGGATTA 2481

Search completed: March 15, 2002, 06:43:22
Job time: 4038 sec